RTIP ID# (<u>required</u>) 20061001									
TCWG Consideration Date October 28. 2008									
Project Description (clearly describe project) Installation of a new traffic signal at the intersection of Grove Avenue and Princeton Street in the City of Ontario. The project does not require any right of way acquisition.									
Type of Proje Intersection Si		a 1 on instruction	on sheet)						
County San Bernardino	Street in the	ne City of Ont Projects – EA	ario	tmiles Interse		f Grove Ave	enue and Princeton		
Lead Agency: Contact Person		tario Phone#		Fax#		Email			
Jay Bautista)II	909-395-	-2120	909-395-212	2		ci.ontario.ca.us		
Hot Spot Poll	utant of Co	ncern (check	one or both) PM2.5 ☑	1	PM10 ☑			
Federal Action for which Project-Level PM Conformity is Needed (check appropriate box)									
	Categorical Exclusion (NEPA) EA or Draft EIS FONSI or Final EIS PS&E or Construction Other								
Cate ✓ Excl	gorical usion	 ☐ EA or		FONSI or Fir		7 PS&E o	or Other		
Cate ✓ Excl	gorical usion [PA)	EA or Draft EIS	,	FONSI or Fir EIS		7 PS&E o	or Other		
Cate ✓ Excl (NEF	gorical usion PA) ite of Feder	EA or Draft EIS	ovember 200	FONSI or Fir EIS		7 PS&E o	or Other		
Cate Excl (NEF	gorical usion PA) Ite of Feder tion – Proje	EA or Draft EIS	ovember 200 ck appropria	FONSI or Fir EIS 08 ate box)	nal	PS&E c Constr	or Other		
Cate Excl (NEF Scheduled Da NEPA Delega	gorical usion PA) Ite of Feder tion – Proje	EA or Draft EIS	ovember 200 ck appropria Section Categori	FONSI or Fir EIS 08 ate box) 6004 –	nal	PS&E c Constr	Or Other Other		
Cate Excl (NEF Scheduled Da NEPA Delega Exer Current Progr	gorical usion PA) Ite of Feder tion – Proje npt amming Da PE/Enviro	EA or Draft EIS ral Action: No ect Type (check the last appropriates (as appropriates)	ovember 200 ck appropriate Section Categori	FONSI or Fir EIS 08 ate box) 6004 – ical Exemptio	on I	PS&E c Constr	Or Other Other CON		
Cate Excl (NEF Scheduled Da NEPA Delega Exer Current Progr	gorical usion PA) Ite of Feder tion – Proje npt ramming Da PE/Enviro	EA or Draft EIS ral Action: No ect Type (check the last approximates (as approximates) 2007	ovember 200 ck appropriation Section Categori opriate) Jul	FONSI or Fir EIS 08 ate box) 6004 — ical Exemption ENG y 2007	on F	PS&E C Constru Sect Cate	Other		
Cate Excl (NEF Scheduled Da NEPA Delega Exer Current Progr Start End Project Purpo This proposed which is currer	gorical usion PA) Ite of Feder tion – Proje npt amming Da PE/Enviro July 2 Novemb se and Nee project will intly stop considerect pede	EA or Draft EIS ral Action: No ect Type (check type) rates (as appropriate 2007 rer 2008 red (Summary install a traffic atrolled along estrian access	ovember 200 ck appropriate Section Categori opriate) Jul Nover n): (attach a	FONSI or Fir EIS 08 ate box) 6004 – ical Exemption ENG y 2007 nber 2008 dditional sheets the intersection Street and uncan neighborhood	as neces	Sect Cate ROW n/a n/a essary) ove Avenue ed on Grove	Or Other Other CON		

Version 4.0 August 1, 2007

Surrounding Land Use/Traffic Generators (especially effect on diesel traffic)

The immediate surrounding area is primarily developed with commercial uses with residential uses surrounding the commercial area. Truck percentages are relatively high but overall traffic volumes are relatively low as shown in the tables below.

Opening Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility

Opening Year Traffic Volumes - Build and No Build

Road	AADT	% Trucks	Truck AADT
Grove Avenue	24,800	6%	1,488
Princeton Street	2,400	0%	0

No Build Intersection LOS F

Build Intersection LOS A

RTP Horizon Year / Design Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility

Design Year Traffic Volumes - Build and No Build

Road	AADT	% Trucks	Truck AADT
Grove Avenue	30,000	14%	4,200
Princeton Street	2,500	0%	0

No Build Intersection LOS F

Build Intersection LOS B

Opening Year: If facility is an interchange(s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT

See Above

RTP Horizon Year / Design Year: If facility is an interchange (s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT

See Above

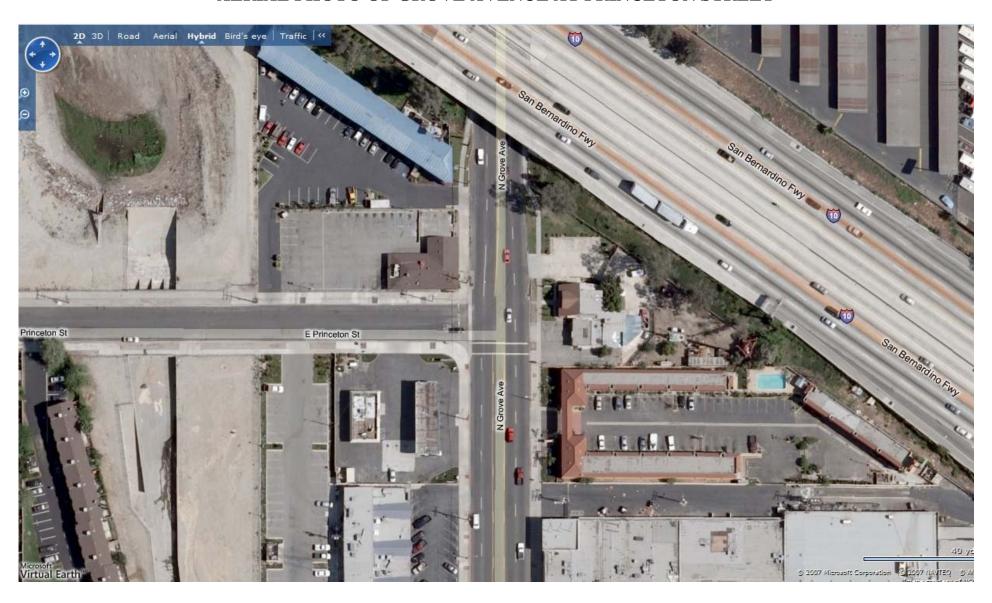
Describe potential traffic redistribution effects of congestion relief (*impact on other facilities*) Project is not expected to result in redistribution of traffic and impacts on other facilities are not anticipated

Comments/Explanation/Details (attach additional sheets as necessary)

An aerial photo of the project intersection along with the plans for the project are attached.

Version 4.0 August 1, 2007

AERIAL PHOTO OF GROVE AVENUE AT PRINCETON STREET

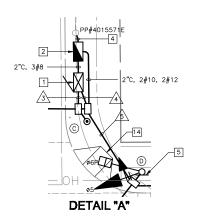


	POLE SCHEDULE													
	POLE DATA MAST ARM			HPSV	SIGNAL MTG.			PED.PUSH BTN			IISNS	DEMARKS		
No.	TYPE	HEIGHT	SIG.M.A.	LUM.M.A.	LUMINAIRE	VEHICLE		PED.	PHASE	QUAD ARW		IISNS	REMARKS	
lack	19-4-100	30'	25'	12'	250W	SV-1-T	MAS	SP-1-T	4	Z	+	Princeton ST ###E	3	
B	1-A	7'	-	-	-	-	-	TP-1-T	6	E	-	-	-	
©	PPB POST	3.5'	-	-	-	-	-	-	6	E	-	-	-	
(D)	1-A	10'	-	-	-	TV-1-T	-	SP-1-T	-	-	ı	-	5	
Œ	26-4-100	30'	40'	12'	250W	SV-2-T	2-MAS	-	-	_	-	Princeton ST ###E	3 5	
Ð	17-3-100	30'	20'	12'	250W	SV-2-T	MAS	SP-1-T	4	S	+	Grove ####N	• 3	

ALL EQUIPMENT SHALL BE NEW.

ROTATE LUMINAIRE ARM 90' AS SHOWN.

CONDUCTOR SCHEDULE										
	RUNS									
AWG CIRCUITS	1	2	3	4	<u>/</u> 5\	<u>6</u>	A	8	<u></u>	
3 CONDUCTOR CABLE (PPB)	1	2	2	2	1	1	1	1	-	
5 CONDUCTOR CABLE (PED)	1	2	2	2	2	1	1	1	-	
9 CONDUCTOR CABLE (VEH)	1	1	1	3	3	2	2	1	ı	
ø2 DETECTOR	-	-	-	2	2	2	2	2	2	
ø4 DETECTOR	-	2	2		-	-	_	_	-	
ø5 DETECTOR	_		_	2	2	2	2	2	2	
Ø6 DETECTOR	-	-	-	2	2	1	-	-	-	
TOTAL DETECTOR CABLES	-	2	2	6	6	5	4	4	4	
#10 LUMINAIRE	2	2	-	-	2	2	2	2	ı	
#12 IISNS	2	2	-	-	2	2	2	2	ı	
#20 OPTICOM CABLE	1	1	1	2	2	2	2	1	ı	
CONDUIT SIZE	3"	3"	3"	4"	4"	3"	3"	3"	3"	
CONDUIT FILL	13.1%	20.2%	18.4%	19.7%	19.7%	25.1%	24.0%	17.6%	4.4%	



CONSTRUCTION NOTES:

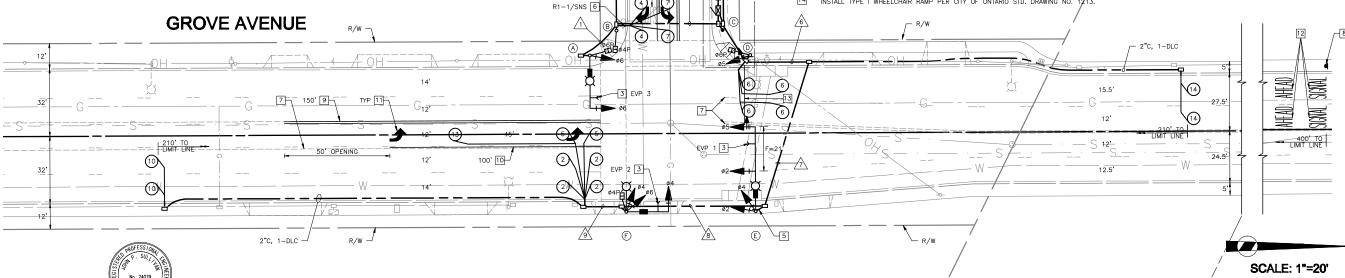
- 1 INSTALL ECONOLITE ASC/2-2120 CONTROLLER IN A TYPE 'P' CABINET ON AN 18" PEDESTAL WITH BATTERY BACKUP SYSTEM.
- [2] INSTALL 120/240V TYPE IIII-CF DUAL METER SERVICE AND SERVICE PEDESTAL. PROVIDE CIRCUIT BREAKERS FOR SIGNALS (ONE 60A), SAFETY LIGHTING (ONE 30A) AND IISNS (ONE 15A). INSTALL TYPE V PHOTOELECTRIC CONTROL IN THE SERVICE EQUIPMENT ENCLOSURE FOR BOTH SAFETY LIGHTING AND IISNS.
- 3 INSTALL OPTICOM MODEL 722 OPTICAL DETECTOR WITH PELCO AB-121 POLE CLAMP. MOUNT ON SIGNAL MAST ARM.
- [4] INSTALL 3° CONDUIT TO ELECTRICAL SERVICE POINT. CONTACT MR. STEPHEN MAY (909) 930-8591 TO COORDINATE INSTALLATION OF SERVICE CONDUCTORS.
- 5 INSTALL R9-3a/R9-3b SIGNS ON SIGNAL POLE.

GENERAL NOTES:

- ALL WORK AND MATERIALS SHALL CONFORM TO CALTRANS STANDARD PLANS AND SECTION 86 OF THE CALTRANS STANDARD SPECIFICATIONS, BOTH DATED JULY 2006, AND CITY OF ONTARIO SPECIAL PROVISIONS FOR TRAFFIC SIGNALS PREPARED SPECIFICALLY FOR THIS WORK.
- 2. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THIS SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS, WHETHER OR NOT SUCH FACILITIES ARE SHOWN ON THESE PLANS.
- 3 THE CONTRACTOR SHALL RENEW OR REPLACE ANY EXISTING TRAFFIC STRIPING AND/OR PAVEMENT MARKINGS, WHICH DURING HIS OPERATIONS HAVE BEEN EITHER REMOVED OR THE EFFECTIVENESS OF WHICH HAS BEEN REDUCED. RENEWAL OF PAVEMENT STRIPING AND MARKINGS SHALL BE DONE IN CONFORMANCE WITH SECTIONS 84 AND 85 OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS.
- 4. UTILITY LINE LOCATIONS WERE TAKEN FROM RECORD AND WERE NOT LOCATED IN THE FIELD, UNLESS OTHERWISE NOTED ON THE PLAN. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 5. STATE LAW (SB 3019) REQUIRES THE CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT AND OBTAIN AN IDENTIFICATION NUMBER PRIOR TO THE ISSUANCE OF THE CITY'S ENCROACHMENT PERMIT. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (1-800-422-4133, 48 HOURS MINIMUM) IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES THAT CAN AFFECT ANY UNDERGROUND UTILITIES.
- 6. ALL OBSTRUCTIONS WITHIN THE AREA TO BE IMPROVED ARE TO BE REMOVED OR RELOCATED AT THE DIRECTION OF THE CITY ENGINEER. UTILITIES ARE TO BE RELOCATED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 7. IN CASE OF ACCIDENTS INVOLVING SAFETY MATTERS COVERED BY SECTION 6424 OF THE CALIFORNIA LABOR CODE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STATE DIVISION OF INDUSTRIAL SAFETY.
- 8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND A BUSINESS LICENSE FROM THE CITY OF ONTARIO.
- 9. THE CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO WORKING DAYS PRIOR TO THE TIME OF CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR IS REFERRED TO SECTION 7-10.3 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 10. ALL WORK RELATED TO ELECTRIC SERVICE SHALL BE PERFORMED IN CONFORMANCE WITH THE REQUIREMENTS OF THE SOUTHERN CALIFORNIA EDISON COMPANY.
- 11. OBTAIN APPROVAL FOR EXACT EQUIPMENT, POLE, AND DETECTOR LOCATIONS PRIOR TO FINAL PLACEMENT.
- 12. ALL PULL BOXES ADJACENT TO MASTARM POLES, OR WITH FOUR OR MORE CONDUITS ENTERING SHALL BE #6. ALL OTHERS SHALL BE #5 UNLESS OTHERWISE SHOWN.
- 13. DETECTOR LOOPS SHALL BE SPLICED IN SERIES. PHYSICALLY ADJACENT DETECTOR LOOPS SHALL BE WOUND WITH OPPOSITE ROTATION. ROTATION REVERSAL MAY BE ACCOMPLISHED AT THE PULL BOX BY REVERSING THE LEADS.
- 14. AT THE DIRECTION OF THE ENGINEER, THE CONTRACTOR SHALL DELIVER AND UNLOAD ANY SALVAGE AT THE ONTARIO MUNICIPAL SERVICE CENTER, 1425 SOUTH BON VIEW AVENUE, OR CITY WELL SITE NO. 9, ON THE WEST SIDE OF COLUMBIA AVENUE NORTH OF DEODAR STREET.
- 15. CITY ACCEPTANCE OF PLANS DOES NOT RELIEVE THE ENGINEER OR THE DEVELOPER FROM RESPONSIBILITY FOR THE CORRECTION OF ERROR AND OMISSION DISCOVERED DURING CONSTRUCTION. UPON REQUEST OF THE CITY INSPECTOR, THE REQUIRED PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER FOR REVIEW.
- 16. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL OBTAIN FROM THE CITY A SET OF SPECIAL PROVISIONS PREPARED SPECIFICALLY FOR THIS WORK.

CONSTRUCTION NOTES (CONTINUED):

- 6 REMOVE EXISTING SIGNS AND POST.
- 7 REMOVE EXISTING STRIPING AND PAVEMENT MARKING.
- 8 INSTALL W3-3/W3-3a SIGNS AND POST.
- 9 INSTALL 4º SOLID DOUBLE YELLOW LINE PER CALTRNAS STD. PLAN A20A, DETAIL 22.
- 10 INSTALL 8" WHITE SOLID LINE PER CALTRANS STD. PLAN A20D, DETAIL 38.
- INSTALL TYPE IV (L) OR (R) ARROW PER CALTRNAS STD. PLAN A24A.
- 12 INSTALL "SIGNAL AHEAD" PAVEMENT MARKINGS PER CALTRANS STD. PLAN A2
- 13 INSTALL 12" SOLID WHITE LINE PER CALTRANS STD. PLAN A24E.
- INSTALL TYPE I WHEELCHAIR RAMP PER CITY OF ONTARIO STD. DRAWING NO. 1213



9 150

SEE DETAIL "A"

PRINCETON STREET

R/W -

CITY OF ONTARIO

BENCH MARK No. _____ELEV. ____ LOCATION:

_____ELEV. _____

TRAFFIC SIGNAL PLAN
GROVE AVENUE and
PRINCETON STREET

SHEET 1 OF 1
CONTRACT ACCOUNT
DWG. NO. TS-XXX